

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/674,259	09/29/2003	Bradford L. Farris	79439	2625	
,	7590 02/15/200 TABIN AND FLANN		EXAMINER		
120 SOUTH LA	A SALLE STREET		ALMEIDA, DEVIN E		
SUITE 1600 CHICAGO, IL 60603-3406			ART UNIT	PAPER NUMBER	
,			. 2132		
·		·			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	02/15/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•	Application No.	Applicant(s)				
Office Action Summan	10/674,259	FARRIS ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Devin Almeida	2132				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was prailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this co D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ja	nuary 2007.	·	•			
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the	merits is			
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the application.	•					
	4a) Of the above claim(s) <u>1-16</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>17-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is ob	ected to. See 37 CF	R 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119	,					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:			•			
1. Certified copies of the priority documents						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	•	d in this National	Stage			
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
I) 🔀 Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal,P					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application				
	•					

Application/Control Number: 10/674,259

Art Unit: 2132

DETAILED ACTION

This action is in response to the papers filed 1/18/2007. Claims 1-18 were received for consideration. Preliminary amendments for the claims was filed 9/29/2003. Currently claims 1-16 are cancelled and 17 and 18 are under consideration.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakahara (U.S. Patent # 5,594,429) in view of Gullman et al (U.S. Patent # 5,280,527). Nakahara teaches 17 a transmitter for sending an encrypted signal to control an actuator, comprising: a radio frequency generator for generating a radio frequency signal (see Nakahara column 4 lines 15-18); a rolling code generator for generating a rolling code (see Nakahara figure 2 and column 3 lines 8-14 and column 4 lines 43-45); a fixed code generator for generating a fixed code (see Nakahara figure 2 and column 3 lines 8-14 and column 4 lines 43-45); and a modulator for modulating the radio frequency signal with the rolling code and the encrypted fixed code to produce an encrypted radio frequency signal for operation or control of a secure actuator (see Nakahara column 6 lines 8-24). Nakahara does not teach an encryptor for generating an encrypted fixed code in response to the rolling code and the fixed code. Gullman

Art Unit: 2132

teaches an encryptor for generating an encrypted fixed code in response to the rolling code and the fixed code (see Gullman column 1 lines 30-36 and column 3 lines 39-43). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have encrypted fixed code as taught in Gullman with rolling and fixed code disclosed in Nakahara. This provides for a very difficult descrambling operation to a potential thief or intruder, as the intruders would not know which of the bits in the code word are fixed and which are varied. Thus, a potential thief is unable to predict or decipher the word and therefore unable to send the system the correct word to disarm it. Therefore one would have been motivated to have included an encryptor for generating an encrypted fixed code in response to the rolling code and the fixed code.

With respect to claim 18, a receiver for receiving an encrypted radio frequency signal from a transmitter and for generating an actuation signal, comprising: a receiver for receiving an encrypted radio frequency signal (see Nakahara column 2 line 1-9 and 37-41); a demodulator for demodulating the encrypted radio frequency signal into a demodulated encrypted signal (see Nakahara column 6 lines 11-13); a signal separator for separating the demodulated encrypted signal into a rolling code signal and an encrypted fixed code signal (see Nakahara column 2 lines 37-63 and column 6 lines 8-24). Nakahara does not teach a decryptor for decrypting the encrypted fixed code signal into a decrypted fixed code signal. Gullman teaches a decryptor for decrypting the encrypted fixed code signal into a decrypted fixed code signal (see Gullman column 1 lines 30-36 and column 3 lines 39-43). It would have been obvious at the time the

Page 4

Art Unit: 2132

invention was made to a person having ordinary skill in the art to which said subject matter pertains to have encrypted fixed code as taught in Gullman with rolling and fixed code disclosed in Nakahara. This provides for a very difficult descrambling operation to a potential thief or intruder, as the intruders would not know which of the bits in the code word are fixed and which are varied. Thus, a potential thief is unable to predict or decipher the word and therefore unable to send the system the correct word to disarm it. Therefore one would have been motivated to have included an encryptor for generating an encrypted fixed code in response to the rolling code and the fixed code.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to 5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. Art Unit: 2132

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DA

Devin Almeida Patent Examiner 2/8/2007

Evaniner Bu 2182